

## Publication Lists

### 2021 Journal Publications

1. Weber GM, Hong C, Palmer NP, Avillach P, Murphy SN, Gutiérrez-Sacristán A, Xia Z, Serret-Larmande A, Neuraz A, Omenn GS, Visweswaran S, Klann JG, South AM, Loh NHW, Cannataro M, Beaulieu-Jones BK, Bellazzi R, Agapito G, Alessiani M, Aronow BJ, Bell DS, Bellasi A, Benoit V, Beraghi M, Boeker M, Booth J, Bosari S, Bourgeois FT, Brown NW, Bucalo M, Chiovato L, Chiudinelli L, Dagliati A, Devkota B, DuVall SL, Follett RW, Ganslandt T, García Barrio N, Gradinger T, Griffier R, Hanauer DA, Holmes JH, Horki P, Huling KM, Issitt RW, Jouhet V, Keller MS, Kraska D, Liu M, Luo Y, Lynch KE, Malovini A, Mandl KD, Mao C, Maram A, Matheny ME, Maulhardt T, Mazzitelli M, Milano M, Moore JH, Morris JS, Morris M, Mowery DL, Naughton TP, Ngiam KY, Norman JB, Patel LP, Pedrera Jimenez M, Ramoni RB, Schriver ER, Scudeller L, Sebire NJ, Serrano Balazote P, Spiridou A, Tan AL, Tan BW, Tibollo V, Torti C, Treçarichi EM, Vitacca M, Zambelli A, Zucco C; Consortium for Clinical Characterization of COVID-19 by EHR (4CE), Kohane IS, Cai T, Brat GA. International Comparisons of Harmonized Laboratory Value Trajectories to Predict Severe COVID-19: Leveraging the 4CE Collaborative Across 342 Hospitals and 6 Countries: A Retrospective Cohort Study. medRxiv [Preprint]. 2021 Feb 5:2020.12.16.20247684. doi: 10.1101/2020.12.16.20247684.
2. Wong ET, Ong V, Remani D, Wong WK, Haroon S, Lau T, Nyeo HQ, Mukhopadhyay A, Tan BH, Chua HR. Filter life and safety of heparin-grafted membrane for continuous renal replacement therapy - A randomized controlled trial. *Semin Dial*. 2021 Jul;34(4):300-308. doi: 10.1111/sdi.12951. Epub 2021 Feb 8.
3. Klann JG, Estiri H, Weber GM, Moal B, Avillach P, Hong C, Tan ALM, Beaulieu-Jones BK, Castro V, Maulhardt T, Geva A, Malovini A, South AM, Visweswaran S, Morris M, Samayamuthu MJ, Omenn GS, Ngiam KY, Mandl KD, Boeker M, Olson KL, Mowery DL, Follett RW, Hanauer DA, Bellazzi R, Moore JH, Loh NW, Bell DS, Waghlikar KB, Chiovato L, Tibollo V, Rieg S, Li ALLJ, Jouhet V, Schriver E, Xia Z, Hutch M, Luo Y, Kohane IS; Consortium for Clinical Characterization of COVID-19 by EHR (4CE) (CONSORTIA AUTHOR), Brat GA, Murphy SN. Validation of an internationally derived patient severity phenotype to support COVID-19 analytics from electronic health record data. *J Am Med Inform Assoc*. 2021 Jul 14;28(7):1411-1420. doi: 10.1093/jamia/ocab018.
4. Gorny AW, Bagdasarian N, Koh AHK, Lim YC, Ong JSM, Ng BSW, Hooi B, Tam WJ, Kagda FH, Chua GSW, Yong M, Teoh HL, Cook AR, Sethi S, Young DY, Loh T, Lim AYT, Aw AK, Mak KSW, Fisher D. SARS-CoV-2 in migrant worker dormitories: Geospatial epidemiology supporting outbreak management. *Int J Infect Dis*. 2021 Feb;103:389-394. doi: 10.1016/j.ijid.2020.11.148. Epub 2020 Nov 16
5. Wong WEJ, Chan SP, Yong JK, Tham YYS, Lim JRG, Sim MA, Soh CR, Ti LK, Chew THS. Assessment of acute kidney injury risk using a machine-learning guided generalized structural equation model: a cohort study. *BMC Nephrol*. 2021 Feb 22;22(1):63. doi: 10.1186/s12882-021-02238-9.
6. Kohane IS, Aronow BJ, Avillach P, Beaulieu-Jones BK, Bellazzi R, Bradford RL, Brat GA, Cannataro M, Cimino JJ, García-Barrio N, Gehlenborg N, Ghassemi M, Gutiérrez-Sacristán A, Hanauer DA, Holmes JH, Hong C, Klann JG, Loh NHW, Luo Y, Mandl KD, Daniar M, Moore JH, Murphy SN, Neuraz A, Ngiam KY, Omenn GS, Palmer N, Patel LP, Pedrera-Jiménez M, Sliz P, South AM, Tan ALM, Taylor DM, Taylor BW, Torti C, Vallejos AK, Waghlikar KB; Consortium For Clinical Characterization Of COVID-19 By EHR (4CE), Weber GM, Cai T. What Every Reader Should Know About Studies Using Electronic Health Record Data but May Be Afraid to Ask. *J Med Internet Res*. 2021 Mar 2;23(3):e22219. doi: 10.2196/22219.
7. Pan TLT, Chen FG. Opportunity within a crisis-A push towards programmatic assessment in the COVID-19 pandemic situation. *Med Educ*. 2021 May;55(5):637. doi: 10.1111/medu.14486. Epub 2021 Mar 8.
8. Khanna AK, Saager L, Bergese SD, Jungquist CR, Morimatsu H, Uezono S, Ti LK, Soto R, Jiang W, Buhre W. Opioid-induced respiratory depression increases hospital costs and length of stay in patients recovering on the general care floor. *BMC Anesthesiol*. 2021 Mar 20;21(1):88. doi: 10.1186/s12871-021-01307-8.
9. Seet ECP, Wong EC, Chew STH, Ti LK, Kumar CM, Chua NPP. A survey of Singapore anaesthesiologists for practice and prevention of peri-operative hypothermia in adult surgical patients. *Ann Acad Med Singap*. 2021 Apr;50(4):362-365. doi: 10.47102/annals-acadmedsg.2020393.
10. Khanna AK, Jungquist CR, Buhre W, Soto R, Di Piazza F, Saager L; PRediction of Opioid-induced respiratory Depression In patients monitored by capnoGraphY (PRODIGY) Group Investigators. Modeling the Cost Savings of Continuous Pulse Oximetry and Capnography Monitoring of United States General Care Floor Patients Receiving Opioids Based on the PRODIGY Trial. *Adv Ther*. 2021 Jul;38(7):3745-3759. doi: 10.1007/s12325-021-01779-7. Epub 2021 May 24.
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12. AM, Spiridou A, Taylor DM, Tippmann P, Visweswaran S, Weber GM, Kohane IS, Cai T, Avillach P; Consortium for Clinical Characterization of COVID-19 by EHR (4CE). International Analysis of Electronic

- Health Records of Children and Youth Hospitalized With COVID-19 Infection in 6 Countries. *JAMA Netw Open*. 2021 Jun 1;4(6):e2112596. doi: 10.1001/jamanetworkopen.2021.12596.
13. Hwang KY, Hwang NC, Tay KH. Conduct of virtual summative anesthesiology Objective Structured Clinical Examination during the COVID-19 pandemic. *Can J Anaesth*. 2021 Oct;68(10):1582-1583. doi: 10.1007/s12630-021-02060-9. Epub 2021 Jul 6
  14. Wang KKP, Liu W, Chew STH, Ti LK, Shen L. New-Onset Atrial Fibrillation After Cardiac Surgery is a Significant Risk Factor for Long-Term Stroke: An Eight-Year Prospective Cohort Study. *J Cardiothorac Vasc Anesth*. 2021 Dec;35(12):3559-3564. doi: 10.1053/j.jvca.2021.07.003. Epub 2021 Jul 8.
  15. Koh W, Chakravarthy M, Simon E, Rasiah R, Charuluxananan S, Kim TY, Chew STH, Bräuer A, Ti LK. Perioperative temperature management: a survey of 6 Asia-Pacific countries. *BMC Anesthesiol*. 2021 Aug 16;21(1):205. doi: 10.1186/s12871-021-01414-6.
  16. Oo S, Chia RHX, Li Y, Sampath HK, Ang SBL, Paranjothy S, Tam JKC, Lee CCM. Bronchial rupture following endobronchial blocker placement: a case report of a rare, unfortunate complication. *BMC Anesthesiol*. 2021 Aug 30;21(1):208. doi: 10.1186/s12871-021-01430-6.
  17. Chen HH, Yang SM, Yang KE, Chiu CY, Chang CJ, Wang YS, Lee TT, Huang YF, Chen YY, Petibois C, Chang SH, Cai X, Low CM, Tan FCK, Teo A, Tok ES, Lim JH, Je JH, Kohmura Y, Ishikawa T, Margaritondo G, Hwu Y. High-resolution fast-tomography brain-imaging beamline at the Taiwan Photon Source. *J Synchrotron Radiat*. 2021 Sep 1;28(Pt 5):1662-1668. doi: 10.1107/S1600577521007633. Epub 2021 Aug 23.
  18. Puah SH, Li A, Cove ME, Phua J, Ng V, Kansal A, Tan QL, Sahagun JT, Taculod J, Tan AY, Mukhopadhyay A, Tay CK, Ramanathan K, Chia YW, Sewa DW, Chew M, Lew SJW, Goh S, Dhanvijay S, Tan JJ, See KC; SICM-NICER Group. High-flow nasal cannula therapy: A multicentred survey of the practices among physicians and respiratory therapists in Singapore. *Aust Crit Care*. 2021 Sep 10;S1036-7314(21)00127-2. doi: 10.1016/j.aucc.2021.08.001.
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  21. Ke Y, Chew S, Seet E, Wong WY, Lim V, Chua N, Zhang J, Lim B, Chua V, Loh NW, Ti LK. Risk factors of post-anaesthesia care unit delirium in patients undergoing non-cardiac surgery in Singapore. *Singapore Med J*. 2021 Oct 11. doi: 10.11622/smedj.2021129
  22. Weber GM, Zhang HG, L'Yi S, Bonzel CL, Hong C, Avillach P, Gutiérrez-Sacristán A, Palmer NP, Tan ALM, Wang X, Yuan W, Gehlenborg N, Alloni A, Amendola DF, Bellasi A, Bellazzi R, Beraghi M, Bucalo M, Chiovato L, Cho K, Dagliati A, Estiri H, Follett RW, García Barrio N, Hanauer DA, Henderson DW, Ho YL, Holmes JH, Hutch MR, Kavuluru R, Kirchoff K, Klann JG, Krishnamurthy AK, Le TT, Liu M, Loh NHW, Lozano-Zahonero S, Luo Y, Maidlow S, Makoudjou A, Malovini A, Martins MR, Moal B, Morris M, Mowery DL, Murphy SN, Neuraz A, Ngiam KY, Okoshi MP, Omenn GS, Patel LP, Pedrera Jiménez M, Prudente RA, Samayamuthu MJ, Sanz Vidorreta FJ, Schriver ER, Schubert P, Serrano Balazote P, Tan BW, Tanni SE, Tibollo V, Visweswaran S, Wagholikar KB, Xia Z, Zöller D; Consortium For Clinical Characterization Of COVID-19 By EHR (4CE), Kohane IS, Cai T, South AM, Brat GA. International Changes in COVID-19 Clinical Trajectories Across 315 Hospitals and 6 Countries: Retrospective Cohort Study. *J Med Internet Res*. 2021 Oct 11;23(10):e31400. doi: 10.2196/31400. Erratum in: *J Med Internet Res*. 2021 Nov 30;23(11):e34625.
  23. Le TT, Gutiérrez-Sacristán A, Son J, Hong C, South AM, Beaulieu-Jones BK, Loh NHW, Luo Y, Morris M, Ngiam KY, Patel LP, Samayamuthu MJ, Schriver E, Tan ALM, Moore J, Cai T, Omenn GS, Avillach P, Kohane IS; Consortium for Clinical Characterization of COVID-19 by EHR (4CE), Visweswaran S, Mowery DL, Xia Z. Multinational characterization of neurological phenotypes in patients hospitalized with COVID-19. *Sci Rep*. 2021 Oct 12;11(1):20238. doi: 10.1038/s41598-021-99481-9.
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  25. Lim WY, Ng B, Lee CK, Shen J, Koh C, Lee P. Strategy for Safe Bronchoscopy during COVID pandemic. *Ann Thorac Surg*. 2021 Oct 19;S0003-4975(21)01747-1. doi: 10.1016/j.athoracsur.2021.09.034.
  26. Ting YL, Lim JZM, Yeo PM, Sim W. Methemoglobinemia: a potential confounder in COVID-19 respiratory failure. *Singapore Med J*. 2021 Nov 8. doi: 10.11622/smedj.2021192.
  27. Wai L, Wijerathne S, Liew L, Venkatesan S, Lee J, Loh C, Lomanto D. Novel local anaesthesia technique 'NATURE' (Nerves And Transversalis-fascia Using RopivacainE) to improve outcomes during endo-laparoscopic inguinal hernia repair. *Asian J Surg*. 2021 Nov 10;S1015-9584(21)00640-0. doi: 10.1016/j.asjsur.2021.10.001
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  29. Tan JKH, Menon NV, Tan PS, Pan TLT, Bonney GK, Shridhar IG, Madhavan K, Lim CT, Kow AWC. Presence of tumor cells in intra-operative blood salvage autotransfusion samples from hepatocellular carcinoma liver

- transplantation: analysis using highly sensitive microfluidics technology. *HPB (Oxford)*. 2021 Nov;23(11):1700-1707. doi: 10.1016/j.hpb.2021.04.006. Epub 2021 Apr 27.
30. Lim MJR, Quek RHC, Ng KJ, Loh NW, Lwin S, Teo K, Nga VDW, Yeo TT, Motani M. Machine Learning Models Prognosticate Functional Outcomes Better than Clinical Scores in Spontaneous Intracerebral Haemorrhage. *J Stroke Cerebrovasc Dis*. 2022 Feb;31(2):106234. doi: 10.1016/j.jstrokecerebrovasdis.2021.106234. Epub 2021 Dec 10.
  31. Lee H, Kim J, Lee KY, Gan TJ, Lekprasert V, Laosuwan P, Chew STH, Seet E, Lim V, Ti LK. Awareness and Perspectives among Asian Anesthesiologists on Postoperative Delirium: A Multinational Survey. *J Clin Med*. 2021 Dec 9;10(24):5769. doi: 10.3390/jcm10245769.
  32. Lee SS, Tay SM, Balakrishnan A, Yeo SP, Samarasekera DD. Mobile learning in clinical settings: unveiling the paradox. *Korean J Med Educ*. 2021 Dec;33(4):349-367. doi: 10.3946/kjme.2021.204. Epub 2021 Nov 30

## 2020 Journal Publications

1. Liew LQ, Teo WW, Seet E, Lean LL, Paramasivan A, Tan J, Lim I, Wang J, Ti LK. Factors predicting one-year post-surgical mortality amongst older Asian patients undergoing moderate to major non-cardiac surgery - a retrospective cohort study. *BMC Surg*. 2020 Jan 13;20(1):11. doi: 10.1186/s12893-019-0654-x.
2. Foong TW, Ramanathan K, Chan KKM, MacLaren G. Extracorporeal Membrane Oxygenation During Adult Noncardiac Surgery and Perioperative Emergencies: A Narrative Review. *J Cardiothorac Vasc Anesth*. 2021 Jan;35(1):281-297. doi: 10.1053/j.jvca.2020.01.025. Epub 2020 Jan 21.
3. Ng SY, Phua J, Wong YL, Kalyanasundaram G, Mukhopadhyay A, Lim D, Chia N, Ho BCH, Bailey MJ, Shehabi Y, Ti LK. Singapore SPICE: sedation practices in intensive care evaluation in Singapore - a prospective cohort study of the public healthcare system. *Singapore Med J*. 2020 Jan;61(1):19-23. doi: 10.11622/smedj.2019055.
4. Ti LK, Ang LS, Foong TW, Ng BSW. What we do when a COVID-19 patient needs an operation: operating room preparation and guidance. *Can J Anaesth*. 2020 Jun;67(6):756-758. doi: 10.1007/s12630-020-01617-4. Epub 2020 Mar 6.
5. Loh NW, Tan Y, Taculod J, Gorospe B, Teope AS, Somani J, Tan AYH. The impact of high-flow nasal cannula (HFNC) on coughing distance: implications on its use during the novel coronavirus disease outbreak. *Can J Anaesth*. 2020 Jul;67(7):893-894. doi: 10.1007/s12630-020-01634-3. Epub 2020 Mar 18.
6. Saito T, Asai T, Taguchi A, Sophia CTH, Liu W, Thinn KK, Ti LK. Prediction of failed facemask ventilation: new scoring system for difficult airway. *J Anesth*. 2020 Jun;34(3):367-372. doi: 10.1007/s00540-020-02761-3. Epub 2020 Mar 23.
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8. Lee CCM, Thampi S, Lewin B, Lim TJD, Rippin B, Wong WH, Agrawal RV. Battling COVID-19: critical care and peri-operative healthcare resource management strategies in a tertiary academic medical centre in Singapore. *Anaesthesia*. 2020 Jul;75(7):861-871. doi: 10.1111/anae.15074. Epub 2020 May 3.
9. Thampi S, Yap A, Fan L, Ong J. Special considerations for the management of COVID-19 pediatric patients in the operating room and pediatric intensive care unit in a tertiary hospital in Singapore. *Paediatr Anaesth*. 2020 Jun;30(6):642-646. doi: 10.1111/pan.13863. Epub 2020 Apr 22.
10. Ashokka B, Loh MH, Tan CH, Su LL, Young BE, Lye DC, Biswas A, Illanes SE, Choolani M. Care of the pregnant woman with coronavirus disease 2019 in labor and delivery: anesthesia, emergency cesarean delivery, differential diagnosis in the acutely ill parturient, care of the newborn, and protection of the healthcare personnel. *Am J Obstet Gynecol*. 2020 Jul;223(1):66-74.e3. doi: 10.1016/j.ajog.2020.04.005. Epub 2020 Apr 10.
11. Lee E, Loh W, Ang I, Tan Y. Plastic Bags as Personal Protective Equipment During the COVID-19 Pandemic: Between the Devil and the Deep Blue Sea. *J Emerg Med*. 2020 May;58(5):821-823. doi: 10.1016/j.jemermed.2020.04.016. Epub 2020 Apr 11.
12. Khanna AK, Bergese SD, Jungquist CR, Morimatsu H, Uezono S, Lee S, Ti LK, Urman RD, McIntyre R Jr, Tornero C, Dahan A, Saager L, Weingarten TN, Wittmann M, Auckley D, Brazzi L, Le Guen M, Soto R, Schramm F, Ayad S, Kaw R, Di Stefano P, Sessler DI, Uribe A, Moll V, Dempsey SJ, Buhre W, Overdyk FJ; PRediction of Opioid-induced respiratory Depression In patients monitored by capnoGraphY (PRODIGY) Group Collaborators. Prediction of Opioid-Induced Respiratory Depression on Inpatient Wards Using Continuous Capnography and Oximetry: An International Prospective, Observational Trial. *Anesth Analg*. 2020 Oct;131(4):1012-1024. doi: 10.1213/ANE.0000000000004788.
13. Liang ZC, Chong MSY, Sim MA, Lim JL, Castañeda P, Green DW, Fisher D, Ti LK, Murphy D, Hui JHP. Surgical Considerations in Patients with COVID-19: What Orthopaedic Surgeons Should Know. *J Bone Joint Surg Am*. 2020 Jun 3;102(11):e50. doi: 10.2106/JBJS.20.00513.

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21. Ashokka B, Ong SY, Tay KH, Loh NHW, Gee CF, Samarasekera DD. Coordinated responses of academic medical centres to pandemics: Sustaining medical education during COVID-19. *Med Teach*. 2020 Jul;42(7):762-771. doi: 10.1080/0142159X.2020.1757634. Epub 2020 May 13.
22. Low TY, Hartman M, Chee CYJ, Mohankumar B, Ang SBL, San MT, Shabbir A, Madhavan K, So JBY. Restructuring the surgical service during the COVID-19 pandemic: Experience from a tertiary institution in Singapore. *Am J Surg*. 2020 Sep;220(3):553-555. doi: 10.1016/j.amjsurg.2020.05.021. Epub 2020 May 15.
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31. Koh CJ, Khoo D. Muffling of healthcare: Assessing the impact of personal protective equipment on speaking volume in an Endoscopy Centre. *Dig Endosc*. 2020 Sep;32(6):997. doi: 10.1111/den.13774. Epub 2020 Aug 18.
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